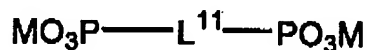


What is claimed is:

1. A method for detaching a carrier for cell culture from a cultured cell formed on a surface of said carrier for cell culture, which comprises the step of bringing the carrier for cell culture into contact with a compound represented by the following formula (I):



wherein L^{11} represents a divalent bridging group; and M represents hydrogen atom or a cation, or a polyphosphoric acid or a salt thereof.

2. A method for culturing a cell by using a carrier for cell culture, which comprises the steps of:

- (1) bringing a cell culture containing a cultured cell adhered on a surface of the carrier for cell culture into contact with a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof, and
- (2) detaching the cultured cell from the cell culture and transplanting said cell on a surface of other cultured cell.

3. A method for transferring a cell, which comprises the steps of:

- (1) culturing a cultured cell formed on a carrier for cell culture while said cultured cell is allowed to be in contact with a surface of other carrier for cell culture with weighting; and
- (2) bringing a cell culture obtained in the aforementioned step (1) into contact with a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof to detach the carrier for cell cultures.

4. A method for laminating cell layers, which comprises the steps of:

- (1) culturing a cultured cell formed on a carrier for cell culture while said cultured cell is allowed to be in contact with other cultured cell with weighting; and
- (2) bringing cell culture obtained in the aforementioned step (1) into contact with a compound represented by the formula (I) mentioned in claim 1, or a polyphosphoric acid or a salt thereof to detach the carrier for cell culture.

5. The method according to claim 1, wherein the carrier for cell culture

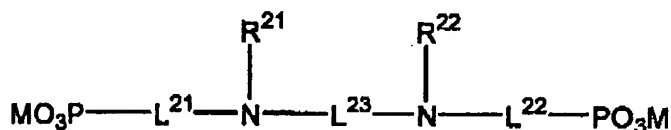
comprises a calcium alginate gel layer.

6. The method according to claim 1, wherein the carrier for cell culture comprises laminated calcium alginate gel layer and cell adhesion gel layer.

7. The method according to claim 1, wherein L^{11} is a substituted or unsubstituted divalent hydrocarbon group.

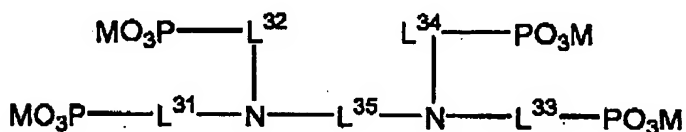
8. The method according to claim 1, wherein the divalent hydrocarbon group is a substituted or unsubstituted methylene group.

9. The method according to any one of claims 1, wherein the compound represented by the formula (I) is a compound represented by the following formula (II):



wherein L^{21} , L^{22} , and L^{23} independently represent a divalent hydrocarbon group; R^{21} and R^{22} independently represent a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aryl group; and M represents hydrogen atom or a cation.

10. The method according to claim 1, wherein the compound represented by the formula (I) is a compound represented by the following formula (III):



wherein L^{31} , L^{32} , L^{33} , L^{34} , and L^{35} represent a divalent hydrocarbon group; and M represents hydrogen atom or a cation.

11. A detaching agent for detachment of a cultured cell from a cell culture obtained by cell culture using a carrier for cell culture, which contains a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof.

12. The detaching agent according to claim 11, wherein the carrier for cell culture comprises a calcium alginate gel layer.

13. A dissolving agent for calcium alginate gel, which comprises a compound represented by the formula (I) according to claim 1, or a polyphosphoric acid or a salt thereof.